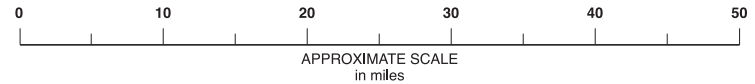


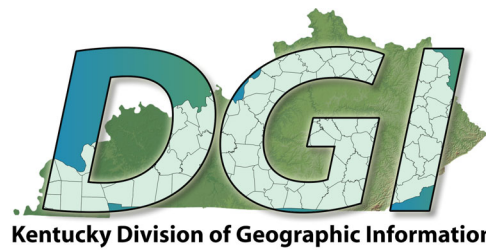
The Commonwealth Map



The Commonwealth Map is a twelve layer statewide digital basemap available free via the Internet for interactive mapping and geographic data querying and downloading. As a collaborative effort of local, state, and federal partners, this initiative is designed to facilitate public, non-profit, and private sector geographic information systems (GIS) development, utilization, innovation, and data sharing. *The Commonwealth Map* serves as Kentucky's contribution to *The National Map*. This map product illustrates each layer and provides supporting information. Please explore this geospatial resource online at: <http://kygeonet.ky.gov/tcm/tcm.htm>.

The Commonwealth Map Layers

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<http://gis.ky.gov/>
<http://kygeonet.ky.gov/>
<http://kygeonet.ky.gov/tcm/tcm.htm>



Parcels
Data Steward: Department of Revenue (DOR)
Contact: Nick Kearney, Ron Johnson
Data Contributors: PVA's
Overview:
The Department of Revenue has used many methods to get the parcel data. They began scanning PVA maps and digitizing them in-house in 2000. In 2001 they began to work with Connectical Industries to train inmates to digitize the maps. 33 counties have been done this way. They have also gotten PVA staff people and students from universities to map the parcels.
Status:
The DOR has 98 counties worth of parcels done to date. Statewide there are about 19 million parcels out of 2.1 million parcels mapped. Their goal is to have all of the PVA maps digitized by the end of 2005. Once all the counties are done, DOR will begin to edge-match the parcels for each county. They have done some edge-matching to date. They anticipate this process to consume many hours and meetings with PVA's.
Update Frequency:
Department of Revenue envisions that the data will be continually kept up to date by the PVA's.
KyGeonet Publication Status:
Yes.
TNM/TCM Registration Status:
Not ready to go. It will be years before this layer is statewide and seamless.

Addresses
Data Steward: State Police
Contact: Ted Stumbar
Data Contributors: KSP, KYTC, ADDs
Overview:
Address ranges will be applied to the statewide road centerline data. This information is needed for 911, emergency management, public program administration and public uses.
Status:
All counties must have accurate maps by 2006. Methodology has been completed. Standards have been approved by the GAC. The ADDs are collecting the address ranges.
Update Frequency:
Continuously once completed
KyGeonet Publication Status:
No.
TNM/TCM Registration Status:
Not ready to go. It will be years before this layer is statewide and seamless.

Geodesy
Data Steward: National Geodetic Survey (NGS)
Contact: Ross Mackay
Data Contributors: None
Overview:
The geodesy layer consists of horizontal and vertical control points. The geodetic control layer has been improved and maintained through a partnership with the NGS. The Height Modernization project has recently received funding.
Status:
The Federal Base Network (FBN) points have just been added to the Commonwealth Map. The FBN includes a remeasurement of the HARN points plus adds around 80 more points to the network.
Update Frequency:
The Geodesy will be continually updated.
KyGeonet Publication Status:
Yes.
TNM/TCM Registration Status:
Ready to Go!

Hydrography (NHD)
Data Steward: DGI
Contact: Kim Anness
Data Contributors: USGS, EPSC, NHD Oversight Committee
Overview:
The statewide National Hydrography Dataset (NHD) was completed in 2003. The NHD can be obtained for 24K and 100K scale.
Status:
The NHD is complete.
Update Frequency:
None planned as needed
KyGeonet Publication Status:
Yes.
TNM/TCM Registration Status:
Ready to Go!

Transportation
Data Steward: KYTC
Contact: Will Holmes, Danielle Buchanan
Data Contributors: ADDs
Overview:
The Kentucky Transportation Cabinet contracted with the Area Development Districts to GPS all road centerlines in the state. The original mapping was completed in 2004.
Status:
KYTC is currently in GPS maintenance phase.
Update Frequency:
Updates will be done based on growth in the counties. The update frequency will vary from biannually to every 2 years.
KyGeonet Publication Status:
Yes.
TNM/TCM Registration Status:
Ready to Go!

Land Cover
Data Steward: KLS/KLC Project & DGI
Contact: Dimitrio Zourarakis
Data Contributors: USGS, NASA
Overview:
Will provide land cover baseline for Kentucky. Could be used for change detection when compared with land cover information obtained in the future.
Status:
There is a web-based IMS service using this layer.
Update Frequency:
Unknown
KyGeonet Publication Status:
No. Metadata exists but it has not been published to the KYGEONET.
TNM/TCM Registration Status:
Not ready to go. Once metadata is published it is ready to go.

Geographic Names (GNIS)
Data Steward: State Geographic Names Board
Contact: Bob Riemick
Data Contributors: USGS, KGS
Overview:
Kentucky has Phase 1 GNIS names. Phase 1 names are the names shown on the 24K USGS Topological maps and it is estimated that the Phase 1 names consist of one-quarter of all the names in the Commonwealth. Kentucky is one of 4 states in the nation that do not have Phase 2 names which are a beefed up version of the Phase 1 names. There are Phase 2 names for the urban areas of the state (Louisville, Lexington and Northern Kentucky). However, these names have to be officially recognized by USGS for them to be used in the National Map.
Status:
For a couple of years the board has been trying to secure funding through USGS to create the Phase 2 names, but the money keeps being diverted to homeland security at USGS. The board meets regularly, but until funding can be secured Kentucky is stuck with Phase 2 names.
Update Frequency:
Until the Phase 2 names are funded and created, there will be no updates to the GNIS. If Phase 2 names are secured, it is recommended that the board oversee updates as needed.
KyGeonet Publication Status:
Yes. Populated Places Layer (PPL)
TNM/TCM Registration Status:
Ready to Go!

Elevation
Data Steward: DGI
Contact: Kim Anness
Data Contributors: USGS
Overview:
Kentucky has DEMs with 10 meter postings statewide (or 30 feet). Previously the DEMs were 30 meter postings. The newer DEMs are a vast improvement over the older ones in several regards. This layer is also known as Shaded Relief in that it was derived from the 10M DEMs.
Status:
The 10 Meter DEMs were completed in 2002 through a partnership with USGS. The 10 meter DEMs have been used to create statewide Hillshade and statewide Tagged Vector Contours (TVG).
Update Frequency:
As needed
KyGeonet Publication Status:
Yes. The 10M DEMs, Hillshade, and TVG datasets are published.
TNM/TCM Registration Status:
Ready to Go!

Structures
Data Steward: Department of Revenue
Contact: Nick Kearney, Ron Johnson
Data Contributors: PVA's, USGS
Overview:
The collection of structure data for the Commonwealth will be a monumental task. Most states are struggling with how (and if) to collect and maintain this data. The Department of Revenue recognized that the locals, specifically the PVA's, would be an excellent source for the data collection effort. Currently there are 30 counties that have already collected structure data. USGS secured grant money to do pilot counties for the structures layer. The grant money will be used to purchase equipment and software for the collection of structure data. The pilot will include 10 counties, as chosen by the Department of Revenue. The PVA's in each of the counties will map all Level 1 structures as identified by USGS (top priority for structure collection). The PVA's are required to use the grant money to buy specific GPS units and specific software. USGS plans to continue funding the effort in previous years.
Status:
The Department of Revenue is working with MapSync, Inc. to develop a data dictionary for the 10 pilot counties. Once the data dictionary is built, the PVA's in the 10 counties will be ready to go collect the data.
Update Frequency:
Department of Revenue envisions that the data will be continually kept up to date by the PVA's.
KyGeonet Publication Status:
No. There is currently nothing to publish.
TNM/TCM Registration Status:
Not ready to go. It will be years before this layer is statewide and seamless.

Census
Data Steward: Census Bureau/U of L Data Center
Contact: David Wiggins
Data Contributors: ADDs
Overview:
Census data is very important, but historically difficult to work with. Typically the user has to "join" together the boundaries and the demographic information. This is usually difficult to do because the index fields between the boundaries and the demographic information typically don't match and it takes massaging to get the two to join. This is an especially daunting task for the new GIS user or anyone unfamiliar with the concept of relational databases.
Status:
There are currently discussions with the Bureau and the Data Center about what they can provide in terms of Census Data.
Update Frequency:
Just like the census, the data should be updated every 10 years.
Problems/Issues:
As indicated above, Census data is historically difficult to work with. Also, we need to look at all the possible data fields we could get from the Census Bureau and determine which demographic information is most important or if we should carry all of it.
KyGeonet Publication Status:
Some census data is published to the Kygeonet, but there is not much demographic information attached to it.
TNM/TCM Registration Status:
Not ready to go.

Boundaries
Data Steward: DGI
Contact: Kim Anness
Data Contributors: SOS
Overview:
There are many boundary layers that have been identified by the Boundary subcommittee, but it has been hard to get agencies to commit to a stewardship on any boundaries beyond city and county boundaries. It has also been discovered that although many agencies have boundaries they use, oftentimes it is only really important for that agency's use and may not be important beyond that (i.e. transportation regional office boundaries, environmental protection regional office boundaries, etc.).
Status:
All city boundary annexation are mapped to date, using filings from the Secretary of State's Office. The county boundaries were created as a compilation of many county boundary files using what was deemed to be the most correct boundaries during the late 90's.
Update Frequency:
The city boundaries are continually updated as the SOS Land Records Office sends new annexations to be mapped. As many as two-dozen annexations can be received during a given month. The county boundaries are rarely updated and this will probably remain the case unless new county boundary surveys are done (SOS is very interested, but the funding to do so does not exist).
KyGeonet Publication Status:
Yes.
TNM/TCM Registration Status:
Ready to Go!

Production Notes:
This map was compiled using Commonwealth Geographic Information System (GIS) Data. Imagery was obtained from KyRaster and Vector data was pulled from KyVector, the GIS Base Utility for Kentucky. Much of the data used during compilation can be found on the Kentucky Geography Network (<http://kygeonet.ky.gov/>).
Kentucky's GIS Utility leverages ESRI's ArcSDE and ArcIMS server software and runs on COT's Enterprise-class servers at the Commonwealth's Cold Harbor Computing Facility in Frankfort, Kentucky.
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GIS Operations By: Kimberly Anness